

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15191

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H02P1/42, H02K17/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H02P1/42, H02K17/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|----------------------------------|
| Y | US 5428493 A (TDK CORP.), 27 June, 1995 (27.06.95), Page 1; Figs. 1, 5 & JP 6-121565 A page 1, Figs. 1, 5 & EP 590592 A & CN 1089766 A | 1, 3, 4, 6, 9, 19, 20, 25, 26 |
| Y | JP 6-38467 A (Yamada Electric Mfg. Co., Ltd.), 10 February, 1994 (10.02.94), Page 1; Fig. 2; Par. Nos. [0027], [0028] (Family: none) | 1, 3, 4, 6, 9, 19, 20, 25, 26 |
| Y | JP 7-45171 A (Matsushita Refrigeration Co.), 14 February, 1995 (14.02.95), Par. Nos. [0044], [0045]; Figs. 1 to 3 (Family: none) | 1, 3, 4, 6 |

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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| <p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> | <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p> |
|--|---|

Date of the actual completion of the international search
24 February, 2004 (24.02.04)

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09 March, 2004 (09.03.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15191

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | US 5977859 A (PACIFIC ENGINEERING CO.), 02 November, 1999 (02.11.99), Page 1 & 10-199396 A & EP 967627 A | 9 |
| Y | JP 2000-11829 A (Matsushita Refrigeration Co.), 14 January, 2000 (14.01.00), Page 1; Figs. 1 to 5, 7, 12, 14; Par. Nos. [0008], [0009], [0023] to [0028] (Family: none) | 12-18 |
| Y | JP 2001-68172 A (Taiko Denki Kabushiki Kaisha), 16 March, 2001 (16.03.01), Page 1; Figs. 1 to 3 (Family: none) | 12-18 |
| Y | JP 7-170697 A (Toshiba Home Technology Corp.), 04 July, 1995 (04.07.95), Fig. 8; Par. Nos. [0011] to [0013] (Family: none) | 18 |
| Y | JP 3023047 Y2 (Toshihiko IKEDA), 24 January, 1996 (24.01.96), Page 1 (Family: none) | 19,20 |
| A | JP 53-66596 A (Yoshiharu TANIGUCHI), 14 June, 1978 (14.06.78), All pages (Family: none) | 5,7,8 |
| A | US 2002/18326 A1 (Wataru SUGAWARA), 14 February, 2002 (14.02.02), Page 1; Figs. 3, 5, 7, 10 to 12 & JP 2001-332159 A & CN 1325122 A & KR 1107630 A | 12-18 |